

DOCUMENT-IDENTIFIER: US 20030043468 A1

TITLE: Projection apparatus

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Detail Description Paragraph - DETX (4):

[0030] A light pipe 33 to convert the shape of a light beam into the same shape as the reflection device 37 is further positioned between the light source 31 and the optical illumination system 35. Instead of the light pipe 33, a fly eye lens, which includes a plurality of lenses, may be used as a beam shaper. A color filter 32 to divide light beams into red, green, and blue beams is further installed between the light source 31 and the light pipe 33. A white light source, such as an arc lamp, may be used as the light source 31.

DOCUMENT-IDENTIFIER: US 20030082516 A1

TITLE: Rapid detection of  
replicating cells

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Brief Description of Drawings Paragraph -  
DRTX (7):

[0128] The CCD-based imager depicted in the figure was used to collect much of the data described in the examples (see also Step 5 of Detailed Description section). In one example, excitation light is provided by introducing light from a high intensity white light source (1000 Watt Xenon arc lamp, Model A-6000, Photon Technology Incorporated, Monmouth Junction, N.J.) into a liquid light-guide (5 mm core diameter, Model 380, Photon Technology Incorporated, Monmouth Junction, N.J.). The liquid light-guide carries the light to an excitation filter-wheel (BioPoint FW, Ludl Electronics, Hawthorne, N.Y.) and directs the filtered beam (typically 9 mm in diameter) onto the detection surface containing the labeled target cells.

The detection surface is the optically clear bottom of a microtiter dish well. However, the same apparatus can detect labeled target cells on various